

Title (en)
APPARATUS AND METHOD FOR DECODING AN ENCODED AUDIO SIGNAL USING A CROSS-OVER FILTER AROUND A TRANSITION
FREQUENCY

Title (de)
VORRICHTUNG UND VERFAHREN ZUR DECODIERUNG EINES CODIERTEN AUDIOSIGNALS UNTER VERWENDUNG EINES
ÜBERSCHNEIDUNGSFILTERS UM EINE ÜBERGANGSFREQUENZ

Title (fr)
APPAREIL ET PROCÉDÉ POUR DÉCODER UN SIGNAL AUDIO CODÉ EN UTILISANT UN FILTRE DE TRANSITION AUTOUR D'UNE
FRÉQUENCE DE TRANSITION

Publication
EP 3025344 B1 20170621 (EN)

Application
EP 14741264 A 20140715

Priority
• EP 13177346 A 20130722
• EP 13177350 A 20130722
• EP 13177353 A 20130722
• EP 13177348 A 20130722
• EP 13189389 A 20131018
• EP 2014065112 W 20140715
• EP 14741264 A 20140715

Abstract (en)
[origin: EP2830061A1] An apparatus for decoding an encoded audio signal, comprises: a spectral domain audio decoder (602) for generating a first decoded representation of a first set of first spectral portions being spectral prediction residual values; a frequency regenerator (604) for generating a reconstructed second spectral portion using a first spectral portion of the first set of first spectral portions, wherein the reconstructed second spectral portion additionally comprises spectral prediction residual values; and an inverse prediction filter (606) for performing an inverse prediction over frequency using the spectral residual values for the first set of first spectral portions and the reconstructed second spectral portion using prediction filter information (607) included in the encoded audio signal.

IPC 8 full level
G10L 21/0388 (2013.01); **G10L 19/02** (2013.01)

CPC (source: EP KR MX RU US)
G10L 19/008 (2013.01 - MX RU US); **G10L 19/02** (2013.01 - KR MX RU); **G10L 19/0204** (2013.01 - MX US); **G10L 19/0208** (2013.01 - US); **G10L 19/0212** (2013.01 - MX US); **G10L 19/022** (2013.01 - MX RU US); **G10L 19/025** (2013.01 - KR MX RU US); **G10L 19/028** (2013.01 - KR MX RU); **G10L 19/03** (2013.01 - KR MX RU US); **G10L 19/032** (2013.01 - MX US); **G10L 19/06** (2013.01 - MX US); **G10L 19/18** (2013.01 - MX); **G10L 21/038** (2013.01 - KR MX RU); **G10L 21/0388** (2013.01 - EP KR MX RU US); **G10L 25/06** (2013.01 - US); **G10L 25/18** (2013.01 - US); **G10L 25/21** (2013.01 - US); **H03M 7/30** (2013.01 - RU); **H04S 1/007** (2013.01 - US); **G10L 19/02** (2013.01 - EP US); **G10L 19/0204** (2013.01 - RU); **G10L 19/0208** (2013.01 - RU); **G10L 19/032** (2013.01 - RU); **H04S 1/007** (2013.01 - RU)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2830061 A1 20150128; AU 2014295295 A1 20160310; AU 2014295295 B2 20171019; AU 2014295296 A1 20160310; AU 2014295296 B2 20171019; AU 2014295297 A1 20160310; AU 2014295297 B2 20170525; AU 2014295298 A1 20160310; AU 2014295298 B2 20170525; AU 2014295300 A1 20160310; AU 2014295300 B2 20170525; AU 2014295301 A1 20160310; AU 2014295301 B2 20170525; AU 2014295302 A1 20150402; AU 2014295302 B2 20160630; BR 112015007533 A2 20170822; BR 112015007533 B1 20220927; BR 112016000740 A2 20170822; BR 112016000740 B1 20221227; BR 112016000852 A2 20170822; BR 112016000852 B1 20211228; BR 112016000947 A2 20170822; BR 112016000947 B1 20220621; BR 112016001072 A2 20170822; BR 112016001072 B1 20220712; BR 112016001125 A2 20170822; BR 112016001125 B1 20220104; BR 112016001398 A2 20170822; BR 112016001398 B1 20211228; BR 122022010958 B1 20240130; BR 122022010960 B1 20230404; BR 122022010965 B1 20230404; BR 122022011231 B1 20240130; BR 122022011238 B1 20231219; CA 2886505 A1 20150129; CA 2886505 C 20171031; CA 2918524 A1 20150129; CA 2918524 C 20180522; CA 2918701 A1 20150129; CA 2918701 C 20200414; CA 2918804 A1 20150129; CA 2918804 C 20180612; CA 2918807 A1 20150129; CA 2918807 C 20190507; CA 2918810 A1 20150129; CA 2918810 C 20200428; CA 2918835 A1 20150129; CA 2918835 C 20180626; CA 2973841 A1 20150129; CA 2973841 C 20190820; CN 104769671 A 20150708; CN 104769671 B 20170926; CN 105453175 A 20160330; CN 105453175 B 20201103; CN 105453176 A 20160330; CN 105453176 B 20190823; CN 105518776 A 20160420; CN 105518776 B 20190614; CN 105518777 A 20160420; CN 105518777 B 20200131; CN 105556603 A 20160504; CN 105556603 B 20190827; CN 105580075 A 20160511; CN 105580075 B 20200207; CN 110310659 A 20191008; CN 110310659 B 20231024; CN 110660410 A 20200107; CN 110660410 B 20231024; CN 111179963 A 20200519; CN 111554310 A 20200818; CN 111554310 B 20231020; CN 112466312 A 20210309; EP 2830054 A1 20150128; EP 2830056 A1 20150128; EP 2830059 A1 20150128; EP 2830063 A1 20150128; EP 2830064 A1 20150128; EP 2830065 A1 20150128; EP 2883227 A1 20150617; EP 2883227 B1 20160817; EP 3017448 A1 20160511; EP 3017448 B1 20200708; EP 3025328 A1 20160601; EP 3025328 B1 20180801; EP 3025337 A1 20160601; EP 3025337 B1 20211208; EP 3025340 A1 20160601; EP 3025340 B1 20190327; EP 3025343 A1 20160601; EP 3025343 B1 20180214; EP 3025344 A1 20160601; EP 3025344 B1 20170621; EP 3407350 A1 20181128; EP 3407350 B1 20200729; EP 3506260 A1 20190703; EP 3506260 B1 20230816; EP 3506260 C0 20230816; EP 3723091 A1 20201014; EP 3742444 A1 20201125; EP 3975180 A1 20220330; EP 4246512 A2 20230920; EP 4246512 A3 20231213; ES 2599007 T3 20170131; ES 2638498 T3 20171023; ES 2667221 T3 20180510; ES 2698023 T3 20190130; ES 2728329 T3 20191023; ES 2813940 T3 20210325; ES 2827774 T3 20210524; ES 2908624 T3 20220503; ES 2959641 T3 20240227; HK 1211378 A1 20160520; JP 2015535620 A 20151214; JP 2016525713 A 20160825; JP 2016527556 A 20160908; JP 2016527557 A 20160908; JP 2016529545 A 20160923; JP 2016529546 A 20160923; JP 2016530556 A 20160929; JP 2018013796 A 20180125; JP 2018041100 A 20180315; JP 2018077487 A 20180517; JP 2020060792 A 20200416; JP 2022123060 A 20220823; JP 6144773 B2 20170607; JP 6186082 B2 20170823; JP 6306702 B2 20180404; JP 6310074 B2 20180411; JP 6321797 B2 20180509; JP 6389254 B2 20180912; JP 6400702 B2 20181003; JP 6568566 B2 20190828; JP 6691093 B2 20200428; JP 6705787 B2 20200603; JP 7092809 B2 20220628; JP 7483792 B2 20240515; KR 101681253 B1 20161201; KR 101764723 B1 20170814; KR 101774795 B1 20170905; KR 101807836 B1 20180118; KR 101809592 B1 20180118; KR 101822032 B1 20180308; KR 101826723 B1 20180322; KR 20150060752 A 20150603; KR 20160024924 A 20160307; KR 20160030193 A 20160316; KR 20160034975 A 20160330; KR 20160041940 A 20160418; KR 20160042890 A 20160420; KR 20160046804 A 20160429; MX 2015004022 A 20150706; MX 2016000854 A 20160623; MX 2016000857 A 20160505; MX 2016000924 A 20160505; MX 2016000935 A 20160705;

MX 2016000940 A 20160425; MX 2016000943 A 20160705; MX 340575 B 20160713; MX 353999 B 20180207; MX 354002 B 20180207; MX 354657 B 20180314; MX 355448 B 20180418; MX 356161 B 20180516; MX 362036 B 20190104; MY 175978 A 20200719; MY 180759 A 20201208; MY 182831 A 20210205; MY 184847 A 20210427; MY 187943 A 20211030; PL 2883227 T3 20170331; PL 3017448 T3 20201228; PL 3025328 T3 20190228; PL 3025337 T3 20220411; PL 3025340 T3 20190930; PL 3025343 T3 20181031; PL 3407350 T3 20201228; PL 3506260 T3 20240219; PT 2883227 T 20161118; PT 3017448 T 20201008; PT 3025328 T 20181127; PT 3025337 T 20220223; PT 3025340 T 20190627; PT 3025343 T 20180518; PT 3407350 T 20201027; RU 2015112591 A 20161027; RU 2016105473 A 20170823; RU 2016105610 A 20170825; RU 2016105613 A 20170828; RU 2016105618 A 20170828; RU 2016105619 A 20170823; RU 2016105759 A 20170825; RU 2607263 C2 20170110; RU 2635890 C2 20171116; RU 2640634 C2 20180110; RU 2643641 C2 20180202; RU 2646316 C2 20180302; RU 2649940 C2 20180405; RU 2651229 C2 20180418; SG 11201502691Q A 20150528; SG 11201600401R A 20160226; SG 11201600422S A 20160226; SG 11201600464W A 20160226; SG 11201600494U A 20160226; SG 11201600496X A 20160226; SG 11201600506V A 20160226; TR 201816157 T4 20181121; TW 201513098 A 20150401; TW 201514974 A 20150416; TW 201517019 A 20150501; TW 201517023 A 20150501; TW 201517024 A 20150501; TW 201523589 A 20150616; TW 201523590 A 20150616; TW 1541797 B 20160711; TW 1545558 B 20160811; TW 1545560 B 20160811; TW 1545561 B 20160811; TW 1549121 B 20160911; TW 1555008 B 20161021; TW 1555009 B 20161021; US 10002621 B2 20180619; US 10134404 B2 20181120; US 10147430 B2 20181204; US 10276183 B2 20190430; US 10311892 B2 20190604; US 10332531 B2 20190625; US 10332539 B2 20190625; US 10347274 B2 20190709; US 10515652 B2 20191224; US 10573334 B2 20200225; US 10593345 B2 20200317; US 10847167 B2 20201124; US 10984805 B2 20210420; US 11049506 B2 20210629; US 11222643 B2 20220111; US 11250862 B2 20220215; US 11257505 B2 20220222; US 11289104 B2 20220329; US 11735192 B2 20230822; US 11769512 B2 20230926; US 11769513 B2 20230926; US 11922956 B2 20240305; US 11996106 B2 20240528; US 2015287417 A1 20151008; US 2016133265 A1 20160512; US 2016140973 A1 20160519; US 2016140979 A1 20160519; US 2016140980 A1 20160519; US 2016140981 A1 20160519; US 2016210974 A1 20160721; US 2017154631 A1 20170601; US 2018102134 A1 20180412; US 2018144760 A1 20180524; US 2018268842 A1 20180920; US 2019043522 A1 20190207; US 2019074019 A1 20190307; US 2019198029 A1 20190627; US 2019251986 A1 20190815; US 2019371355 A1 20191205; US 2020082841 A1 20200312; US 2021065723 A1 20210304; US 2021217426 A1 20210715; US 2021295853 A1 20210923; US 2022139407 A1 20220505; US 2022157325 A1 20220519; US 2022270619 A1 20220825; US 2023352032 A1 20231102; WO 2015010947 A1 20150129; WO 2015010948 A1 20150129; WO 2015010949 A1 20150129; WO 2015010950 A1 20150129; WO 2015010952 A1 20150129; WO 2015010952 A9 20171026; WO 2015010953 A1 20150129; WO 2015010954 A1 20150129; ZA 201502262 B 20160928; ZA 201601010 B 20171129; ZA 201601011 B 20170531; ZA 201601046 B 20170531; ZA 201601111 B 20170830

DOCDB simple family (application)

EP 13189358 A 20131018; AU 2014295295 A 20140715; AU 2014295296 A 20140715; AU 2014295297 A 20140715; AU 2014295298 A 20140715; AU 2014295300 A 20140715; AU 2014295301 A 20140715; AU 2014295302 A 20140715; BR 112015007533 A 20140715; BR 112016000740 A 20140715; BR 112016000852 A 20140715; BR 112016000947 A 20140715; BR 112016001072 A 20140715; BR 112016001125 A 20140715; BR 112016001398 A 20140715; BR 122022010958 A 20140715; BR 122022010960 A 20140715; BR 122022010965 A 20140715; BR 122022011231 A 20140715; BR 122022011238 A 20140715; CA 2886505 A 20140715; CA 2918524 A 20140715; CA 2918701 A 20140715; CA 2918804 A 20140715; CA 2918807 A 20140715; CA 2918810 A 20140715; CA 2918835 A 20140715; CA 2973841 A 20140715; CN 201480002625 A 20140715; CN 201480041218 A 20140715; CN 201480041226 A 20140715; CN 201480041246 A 20140715; CN 201480041248 A 20140715; CN 201480041267 A 20140715; CN 201480041566 A 20140715; CN 201910412164 A 20140715; CN 201910689687 A 20140715; CN 201911415693 A 20140715; CN 202010010552 A 20140715; CN 202011075098 A 20140715; EP 13189362 A 20131018; EP 13189366 A 20131018; EP 13189368 A 20131018; EP 13189374 A 20131018; EP 13189382 A 20131018; EP 13189389 A 20131018; EP 14738853 A 20140715; EP 14738854 A 20140715; EP 14738857 A 20140715; EP 14739160 A 20140715; EP 14739161 A 20140715; EP 14739811 A 20140715; EP 14741264 A 20140715; EP 18180168 A 20140715; EP 19157850 A 20140715; EP 2014065106 W 20140715; EP 2014065109 W 20140715; EP 2014065110 W 20140715; EP 2014065112 W 20140715; EP 2014065116 W 20140715; EP 2014065118 W 20140715; EP 2014065123 W 20140715; EP 20175810 A 20140715; EP 20176783 A 20140715; EP 21207282 A 20140715; EP 23188679 A 20140715; ES 14738853 T 20140715; ES 14738854 T 20140715; ES 14738857 T 20140715; ES 14739160 T 20140715; ES 14739161 T 20140715; ES 14739811 T 20140715; ES 14741264 T 20140715; ES 18180168 T 20140715; ES 19157850 T 20140715; HK 15112062 A 20151208; JP 2015544509 A 20140715; JP 2016528412 A 20140715; JP 2016528413 A 20140715; JP 2016528414 A 20140715; JP 2016528415 A 20140715; JP 2016528416 A 20140715; JP 2016528417 A 20140715; JP 2017182327 A 20170922; JP 2017216774 A 20171109; JP 2017234677 A 20171206; JP 2020000087 A 20200106; JP 2022097243 A 20220616; KR 20157008843 A 20140715; KR 20167001383 A 20140715; KR 20167001755 A 20140715; KR 20167003487 A 20140715; KR 20167004258 A 20140715; KR 20167004276 A 20140715; KR 20167004481 A 20140715; MX 2015004022 A 20140715; MX 2016000854 A 20140715; MX 2016000857 A 20140715; MX 2016000924 A 20140715; MX 2016000935 A 20140715; MX 2016000940 A 20140715; MX 2016000943 A 20140715; MY PI2016000067 A 20140715; MY PI2016000069 A 20140715; MY PI2016000099 A 20140715; MY PI2016000112 A 20140715; MY PI2016000118 A 20140715; PL 14738853 T 20140715; PL 14738854 T 20140715; PL 14738857 T 20140715; PL 14739160 T 20140715; PL 14739161 T 20140715; PL 14739811 T 20140715; PL 18180168 T 20140715; PL 19157850 T 20140715; PT 14738853 T 20140715; PT 14738854 T 20140715; PT 14738857 T 20140715; PT 14739160 T 20140715; PT 14739161 T 20140715; PT 14739811 T 20140715; PT 18180168 T 20140715; RU 2015112591 A 20140715; RU 2016105473 A 20140715; RU 2016105610 A 20140715; RU 2016105613 A 20140715; RU 2016105618 A 20140715; RU 2016105619 A 20140715; RU 2016105759 A 20140715; SG 11201502691Q A 20140715; SG 11201600401R A 20140715; SG 11201600422S A 20140715; SG 11201600464W A 20140715; SG 11201600494U A 20140715; SG 11201600496X A 20140715; SG 11201600506V A 20140715; TR 201816157 T 20140715; TW 103124622 A 20140717; TW 103124623 A 20140717; TW 103124626 A 20140717; TW 103124628 A 20140717; TW 103124629 A 20140717; TW 103124630 A 20140717; TW 103124811 A 20140718; US 201514680743 A 20150407; US 201615000902 A 20160119; US 201615002343 A 20160120; US 201615002350 A 20160120; US 201615002361 A 20160120; US 201615002370 A 20160120; US 201615003334 A 20160121; US 201715431571 A 20170213; US 201715834260 A 20171207; US 201815874536 A 20180118; US 201815985930 A 20180522; US 201816156683 A 20181010; US 201816178835 A 20181102; US 201916286263 A 20190226; US 201916395653 A 20190426; US 201916417471 A 20190520; US 201916582336 A 20190925; US 202017094791 A 20201110; US 202117217533 A 20210330; US 202117339270 A 20210604; US 202217576780 A 20220114; US 202217583612 A 20220125; US 202217653332 A 20220303; US 202318220677 A 20230711; ZA 201502262 A 20150407; ZA 201601010 A 20160215; ZA 201601011 A 20160215; ZA 201601046 A 20160216; ZA 201601111 A 20160218